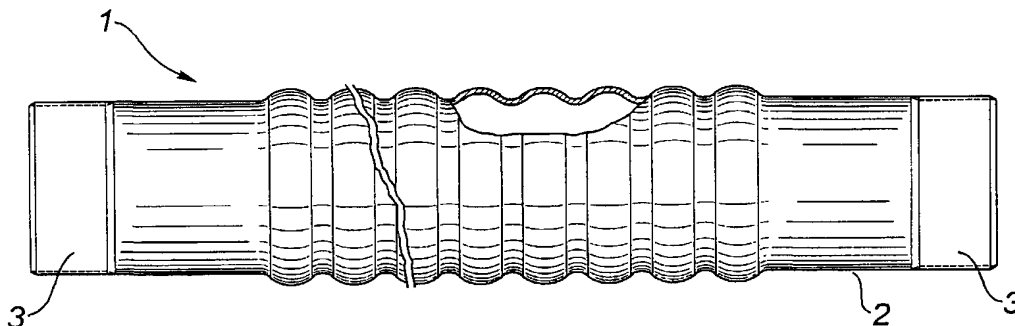




INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification ⁷ : B21D 15/10, E21B 17/00	A1	(11) International Publication Number: WO 00/67930 (43) International Publication Date: 16 November 2000 (16.11.00)
(21) International Application Number: PCT/CA00/00502 (22) International Filing Date: 4 May 2000 (04.05.00) (30) Priority Data: 60/132,632 5 May 1999 (05.05.99) US (71) Applicant: NOETIC ENGINEERING INC. [CA/CA]; P.O. Box 49036, 9647 – 41 Avenue, Edmonton, Alberta T6E 6H4 (CA). (71)(72) Applicants and Inventors: SLACK, Maurice, William [CA/CA]; 1831 – 104A Street, Edmonton, Alberta T6J 5C1 (CA). KAISER, Trent, Michael, Victor [CA/CA]; 10912 – 16 Avenue, Edmonton, Alberta T6J 5G6 (CA). BEAULAC, Gerald, Adrien, Joseph [CA/CA]; 11126 – 23A Avenue, Edmonton, Alberta T6J 4N9 (CA). (74) Agent: JOHNSON, E., Peter; Ogilvie and Company, 1400 Canadian Western Bank Place, 10303 Jasper Avenue, Edmonton, Alberta T5J 3N6 (CA).		(81) Designated States: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG). Published <i>With international search report.</i>

(54) Title: CORRUGATED THICK-WALLED PIPE FOR USE IN WELLBORES



(57) Abstract

Thick-walled steel pipe is corrugated for the purpose of managing axial load when the pipe is used in an earth-restrained application. For example, the pipe may be used as casing in a cyclic steam stimulation well, where the axial loads are induced as the casing is heated and cooled.